

values of said bulk refractive index,  $n$ , and said peak modulation,  $\Delta n$ , being established using well known exposure and processing procedures for said volume phase medium;

whereby the S-polarization diffraction efficiency and the P-polarization diffraction efficiency of said enhanced volume phase grating, when illuminated by an incident beam of said nominal free-space wavelength,  $\lambda$ , at said internal angle of incidence,  $\alpha$ , are simultaneously maximized at a common value of the product  $\Delta n T$ , thereby simultaneously minimizing insertion loss and PDL in a highly dispersive volume phase grating.

#### Conclusion

With the above amendments, applicant submits that this application is now in full condition for allowance.

Respectfully submitted,

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